

## SEQUENCE LISTING

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THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as

<120> MUCOSAL CYTOTOXIC T LYMPHOCYTE RESPONSES

<130> 368200PCSEQ

<140> PCT/US98/  
<141> 1998-09-11

<150> 60/058,523  
<151> 1997-09-11

<150> 60/074,894  
<151> 1998-02-17

<160> 20

<170> PatentIn Ver. 2.0

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<212> PRT  
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Glu Gln Met His Glu Asp Ile Ile Ser Leu Trp Asp Gln Ser Leu Lys  
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Pro Cys Val Lys Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr  
20 25 30

Ile Gly Lys  
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<210> 2  
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<400> 2

Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala  
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Pro Pro Ile Ser Gly Gln Ile Arg Arg Ile Gln Arg Gly Pro Gly Arg  
20 25 30

Ala Phe Val Thr Ile Gly Lys  
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Arg Asp Asn Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile  
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Glu Pro Leu Gly Val Ala Pro Thr Arg Ile Gln Arg Gly Pro Gly Arg  
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Ala Phe Val Thr Ile Gly Lys  
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Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Val Gln Gly Ala  
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Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu  
20 25 30

Arg Arg Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys  
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Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg His  
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Pro Gly Arg Ala Phe Val Thr Ile Gly Lys  
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Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg Arg  
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Ile Gln Arg Gly Pro Gly Arg Ala Phe Val Thr Ile Gly Lys  
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<212> PRT

<213> Human immunodeficiency virus type 1

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Ala Gln Gly Ala Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg  
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Arg Ile Gln Arg Gly Pro Gly Pro Arg Ala Phe Val Thr Ile Gly Lys  
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<210> 8

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<212> PRT

<213> Human immunodeficiency virus type 1

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Glu Gln Met His Glu Asp Ile Ile Ser Leu Trp Asp Gln Ser Leu Lys  
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20 25 30

Thr Lys Asn  
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Pro Pro Ile Ser Gly Gln Ile Arg Arg Ile His Ile Gly Pro Gly Arg  
20 25 30

Ala Phe Tyr Thr Thr Lys Asn  
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<400> 10  
Arg Asp Asn Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile  
1 5 10 15

Glu Pro Leu Gly Val Ala Pro Thr Arg Ile His Ile Gly Pro Gly Arg  
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Ala Phe Tyr Thr Thr Lys Asn  
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<400> 11

Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Val Gln Gly Ala  
1 5 10 15

Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu  
20 25 30

Arg Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn  
35 40 45

<210> 12

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<212> PRT

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Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg His  
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20 25 30

Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn

35 40

<210> 13

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<212> PRT

<213> Human immunodeficiency virus type 1

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Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg Arg  
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Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn  
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<210> 14

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Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn  
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<210> 16  
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<400> 16  
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Pro Cys Val Lys  
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<213> Human immunodeficiency virus type 1

<400> 19

Arg Asp Asn Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile

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5

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Glu Pro Leu Gly Val Ala Pro Thr

20

<210> 20

<211> 33

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 20

Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Val Gln Gly Ala

1

5

10

15

Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly Leu Glu

20

25

30

Arg